

SPECIFICATION

METHOD, SYSTEM, AND PROGRAM FOR USE IN DISPLAYING EXPRESSION
PHENOMENON IN LIVING MATTERS

Related Applications

This application is a 371 of PCT JP01/06087, filed July 13, 2001, and claims priority to Japanese Application Serial No. 25933/2000, filed February 1, 2001 and Japanese Application Serial No. 213106/2000 filed July 13, 2000.

Technical Field

The present invention relates to a method, a system, and a program for use in displaying an expression phenomenon in a living matter that is adapted to visually display (or visually print), as a three-dimensional image, the expression phenomenon of genes (nucleic acid sequences, amino acid sequences, or derivatives thereof) in one or more living matters.

Background of Art

Elucidation of gene expression in living matters is the most fundamental issue in applied sciences including, from unraveling an onset mechanism of disorders and development of new medical drugs, to food engineering. It is known that many genes are involved even in a certain phenomenon and a complicated network is formed among these genes.

The network is formed chronologically in three-dimensional space through transmission of stimuli caused by the release of a chemical substance to adjacent tissues, rather than being found locally in a single tissue.

On the other hand, experimentally observed data are discrete ones indicating frequency of expression of genes in each cell in each tissue at a certain instance in time.